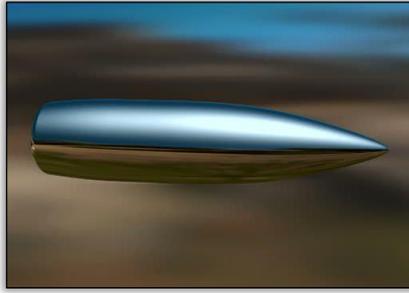


Instant, Accurate Shot Scoring



STRAFE AND GUNNERY TARGET TYPE 590

The Strafe and Gunnery Target is an advanced acoustic shot scoring system. Designed for the training and evaluation of fixed wing and rotary aircraft gunnery, the real-time reporting of shot pattern and hits greatly enhances the gunner's training cycle.

The non-contact electronic shot detection technology ensures a low-cost system, with a greatly reduced frequency of target replacement. The rugged quality of the target adds a further assurance of product longevity, an essential requirement of any modern military equipment.

Since 1996, this has been a choice target used in UK RAF ranges. The latest target utilises cutting-edge technology to enhance accuracy and usability. The simplicity of the software, when added to the rapidity of the target's operational feedback, provides an unparalleled training experience. Pilots and gunners are made immediately aware of their score, greatly accelerating the improvement curve.

The Strafe Scoring target delivers instant, accurate shot scoring, with a support network at MS Instruments that guarantees the system is consistently the best.

CUTTING-EDGE TECHNOLOGY ENHANCES ACCURACY AND USABILITY

Versatile:

- All supersonic projectile types detected.
- Wide range of attack angles.
- Modular structure.

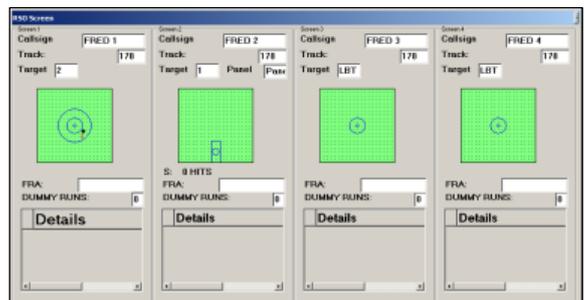


Tough and Convenient:

- Robust folding design.
- Easy transportation.
- Reliable operation.

Simple and Effective:

- Instant Feedback.
- Capacity for system expansion.
- Comprehensive report generation.

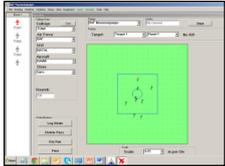




Acoustic Sensor



Full Target



Shot Pattern Display

HARDWARE

- **Two acoustic sensor pods** measure the shock-cone generated by supersonic projectiles passing over the target. The projectile's location is then calculated.
- **The Radio Transceiver** sends this information to the Range Processor Type 663(n), where the shot pattern and score are clearly displayed. Wiring is available on request.
- **New Folding Frame** gives maximum pod separation, and hence detection area, whilst ensuring portability. The folding cover protects the target during transport and storage.
- **Modularity** ensures easy component replacement, minimising down-time in the event of shot damage. Combined with power-up tests, this ensures incomparable reliability.

SOFTWARE

- **Shot Pattern and Score** displayed on operator and remote screen.
- **Communication** with the system allows performance analysis at any base location.
- **System Expansions** include multiple targets and bomb-scoring, with seamless software integration.
- **Comprehensive Report Generation** and summary statistics capability.

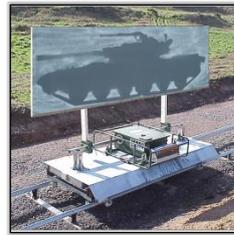
SPECIFICATION

MEASUREMENT		Communications	900 MHz band UHF [Radio Transceiver Type 573]
Active Target Area	7m x 7m [7.62mm cal]; 20m x 20m [30mm cal]	Standard Radio Distance	3.0km [1.8mi]
Shot Position Accuracy	500mm rms or better	Wired	Available on request
Azimuth Range [typical]	±25°	ENVIRONMENT	
Elevation Range [typical]	0-45°	IP Rating	IP67
PROJECTILES		Rain	Operates in light rain
Projectile Velocity [at target]	Mach 1.3 to Mach 5	Wind	Gusts affect nominal accuracy
Projectile Calibre	All supersonic calibres	Operating Temperature	-10°C to 50°C [14 °F to 122 °F]
Rate of Fire	≤6000 rpm	DIMENSIONS	
POWER/COMMS		L x W x H (Folded)	2.69m x 0.42m x 0.64m (1.59m x 0.42m x 0.68m) [106in x 17in x 26in (63in x 17in x 27in)]
Power	12V DC provided by sealed, lead, acid battery	Weight [excl. battery and cover]	39.0kg [86.0lbs]
Charging	110-240V AC (50-60 Hz)		

USED WITH



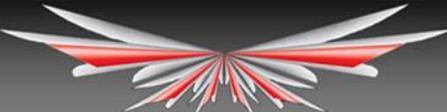
Battle Effects Simulator (BATES) Type 220-221



Moving Armour Target (MAT) Type 250-253



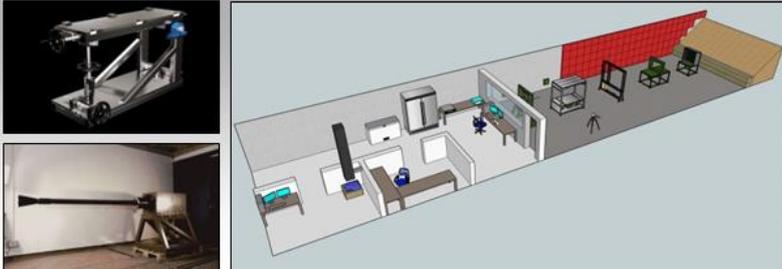
Bomb Scoring System Type 650



MS INSTRUMENTS Range Consultancy

Precision, Expertise, Quality

- Professional Bespoke Range Designs
- State-of-the-Art Product Rendering
- Only the Latest Standards



MS Instruments Ltd.

Unit 4, Ravensquay Business Centre, Cray Avenue
Orpington, Kent, BR5 4BQ, United Kingdom

Tel: +44 (0)1689 883 020

Fax: +44 (0)1689 871 392

contact@msinstruments.co.uk

www.msinstruments.co.uk

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590-strafeandgunnerytarget - Jul-17

The information in this document is correct at the stated time. MS Instruments Ltd has a policy of continuing development and reserves the right to make design changes/improvements to the products.